REPORT DOCUMENTATION PAGE

Form Approved OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 2202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any person that the collection of information if it does not display a currently valid OMR control number.

			t does not display a currently va IE ABOVE ADDRESS.	lid OMB control nun	nber.		
1. REPORT DATE (DD-MM-YYYY) 2. REPORT TYPE						3. DATES COVERED (From - To)	
	/05/2009		Final Performance Tec	hnical Report		July 1, 2007 - January 31, 2009	
4. TITLE AND					5a. C	ONTRACT NUMBER	
Construction	of a Modular N	Iicrostructure P	rofiler (MMP)				
					5b. GRANT NUMBER		
					N00014-07-1-1014		
					5c. P	ROGRAM ELEMENT NUMBER	
6. AUTHOR(S)					5d. PROJECT NUMBER		
Michael C. Gregg/Jack B. Miller							
					5e T	ASK NUMBER	
					00	ACK HOMBEN	
					Tr. WORK HAIT WHITE		
					5f. WORK UNIT NUMBER		
			ID ADDRESS(ES)			8. PERFORMING ORGANIZATION REPORT NUMBER	
		University of V	Washington			III. SIII IISIIIDEII	
1013 N.E. 40t Seattle, WA							
Scattle, WII	20103						
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)					10. SPONSOR/MONITOR'S ACRONYM(S)		
Scott Harper							
Office of Nav	al Research, Co	ode 322					
875 North Randolph Street						11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
Arlington, VA 22203-1995						NONE INCOME	
12 DISTRIBUT	ΙΟΝ/ΔΥΔΙΙ ΔΒΙΙ	ITY STATEMENT					
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution is unlimited.							
ripproved for	public release,	distribution is	umminca.				
13. SUPPLEMENTARY NOTES							
14. ABSTRACT	<u> </u>						
		wara usad to fol	oriente and accomble a	noorly identic	ol ropl	acament for a Modular Microstructura	
Funds from this ONR grant were used to fabricate and assemble a nearly identical replacement for a Modular Microstructure Profiler (MMP) lost during ONR-funded AESOP work in Monterey Bay in August 2006. Funds were available to us in September							
2007, fabrication began in December 2007, and the MMP was finished in January 2009. The new MMP was successfully tested in							
Puget Sound and taken on a research cruise in Monterey Bay in April 2009.							
15. SUBJECT TERMS							
	CLASSIFICATIO		17. LIMITATION OF ABSTRACT	18. NUMBER OF	19a. NAME OF RESPONSIBLE PERSON		
a. REPORT	b. ABSTRACT	c. THIS PAGE		PAGES		ie Harding ELEPHONE NUMBER (Include area code)	
SAR	SAR	SAR	SAR	1	130. I	206-543-7048	

FINAL TECHNICAL REPORT

Construction of a Modular Microstructure Profiler (MMP)

ONR grant N00014-07-1-1014 Performance Period: 07/01/07-1/31/09

Michael C. Gregg, Principal Investigator

Funds from this ONR grant were used to fabricate and assemble a nearly identical replacement for a Modular Microstructure Profiler (MMP) lost during ONR-funded AESOP work in Monterey Bay in August 2006. Funds were available to us in September 2007, fabrication began in December 2007, and the MMP was finished in January 2009. The new MMP was successfully tested in Puget Sound and taken on a research cruise in Monterey Bay in April 2009.

The fabrication took longer than anticipated since the CD-archived electronic drawing files were unreadable and backup printed drawings had to be used. As a result of the extra costs incurred, we omitted the Turbidity Sensor and Dissolved Oxygen sensor. Approximately \$42.8K was spent on engineering time, \$39.1K spent on machine shop (time and materials), and \$11.1 spent on sensors.